

## ABSTRACT

A main object of the present invention is to provide an artificial corundum crystal which can be put into practical use at low costs and a process for producing the same. The invention provides an artificial corundum crystal containing a seed crystal and having at least one crystal face selected from the group consisting of a {113} face, a {012} face, a {104} face, a {110} face, a {101} face, a {116} face, a {211} face, a {122} face, a {214} face, a {100} face, a {125} face, a {223} face, a {131} face, and a {312} face. The invention further provides a process for producing an artificial corundum crystal, wherein an artificial corundum crystal having a hexagonally dipyramidal shape as its base shape is formed with a seed crystal by a flux evaporation method of heating a sample containing a raw material and a flux to precipitate a crystal and grow the crystal by use of flux evaporation as driving force.